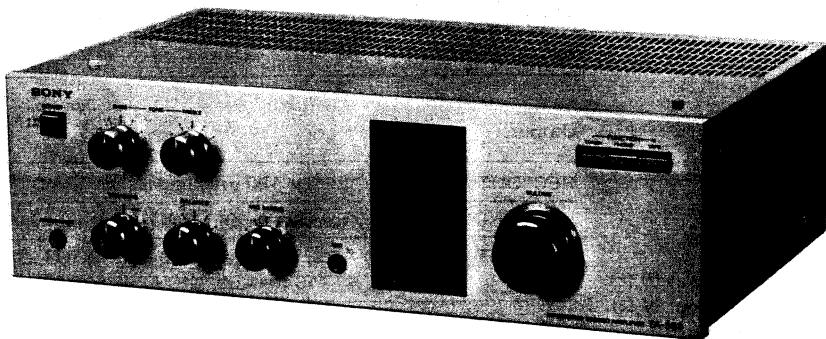


# TA-333

*US Model  
Canadian Model  
AEP Model  
UK Model  
E Model  
SCN Model*



## INTEGRATED STEREO AMPLIFIER

### SPECIFICATIONS

#### GENERAL

##### **SAFETY-RELATED COMPONENT WARNING!!**

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

##### **ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!**

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE  SUR LES DIAGRAMMES SCHÉMATIQUES, LES VUES EXPLOSÉES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

<b>System:</b>	Direct output coupling, pure-complementary symmetry power amplifier circuit (SE PNP OTL)
<b>Power Requirements:</b>	120 V ac ~, 60 Hz (US, Canadian model) 240 V ac ~, 50 Hz (UK model) 220 V ac ~, 50 Hz (AEP, SCN model) 120, 220 or 240 V ac ~ adjustable, 50/60 Hz (E model)
<b>Power Consumption:</b>	95 W (US, Canadian model) 180 W (AEP, E, SCN model) 240 W (UK model)
<b>Ac Outlets:</b> (not provided for SCN model)	1 switched (100 W) 2 unswitched (total 200 W)
<b>Dimensions:</b>	Approx. 430 (w) x 135 (h) x 290 (d) mm 17 (w) x 5 1/4 (h) x 11 1/2 (d) inches including projecting parts and controls
<b>Weight:</b>	Approx. 6.2 kg, 13 lb 11 oz net Approx. 7.6 kg, 16 lb 12 oz in shipping carton (AEP, E, UK, SCN model) Approx. 5.5 kg, 12 lb 2 oz net Approx. 7 kg, 15 lb 7 oz in shipping carton (US, Canadian model)

— Continued on page 2 —

**SONY®**  
**SERVICE MANUAL**

# TA-333

## AMPLIFIER SECTION

### Power Output and Total Harmonic Distortion:

(US, Canadian model)

With 8  $\Omega$  loads, both channels driven, from 20 – 20,000 Hz; rated 25 W per channel minimum RMS power, with no more than 0.3 % total harmonic distortion from 250 mW to rated output.

### Continuous RMS Power Output:

Less than 0.3% (8 $\Omega$ ) or 0.3% (4 $\Omega$ ) THD.

both channels driven

simultaneously

(AEP, UK, E, SCN model)

At 1 kHz  
28 + 28 W (8  $\Omega$ )  
28 + 28 W (4  $\Omega$ )  
At 20 Hz – 20 kHz  
25 + 25 W (8  $\Omega$ )  
25 + 25 W (4  $\Omega$ )  
According to DIN 45500  
25 + 25 W (8  $\Omega$ )  
25 + 25 W (4  $\Omega$ )

### Power Bandwidth (IHF):

Harmonic Distortion:

10 Hz – 30 kHz (8  $\Omega$ )

Less than 0.3 % at rated output (8  $\Omega$ )

Less than 0.3 % at rated output (4  $\Omega$ )

Less than 0.3 % at 1 W output

### Intermodulation (IM)

Distortion:  
(60Hz : 7kHz = 4 : 1)

Less than 0.3 % at rated output

Less than 0.3 % at 1 W output

Frequency Response:

PHONO RIAA equalization curve

$\pm 0.8$  dB

TUNER 10 Hz – 50 kHz  $\frac{+1}{-3}$  dB  
TAPE

MIC 200 Hz – 10 kHz  $\frac{+0}{-3}$  dB

Damping Factor:

30 (8  $\Omega$ , 1 kHz)

Tone Controls:

BASS  $\pm 8$  dB at 100 Hz

TREBLE  $\pm 8$  dB at 10 kHz

Loudness (att. 30dB):

+6 dB at 100 Hz

### Inputs:

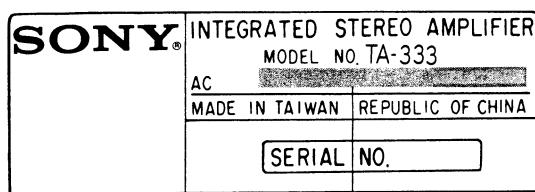
	Sensitivity	Impedance	Maximum input capability (at 1 kHz, 0.3 % distortion)	S/N (weighting network, input level)
PHONO	2.5 mV	50 k $\Omega$	110 mV	72 dB (A, 2.5 mV)
TUNER TAPE	150 mV	50 k $\Omega$	–	95 dB (A, 150 mV)
MIC	2 mV	10 k $\Omega$	–	–

### Outputs:

REC OUT	Voltage 150 mV, Impedance 10 k $\Omega$
HEADPHONES	Accepts low and high impedance headphones
SPEAKER	Accepts speakers of 8 – 16 $\Omega$ (US, Canadian model) or 4 – 16 $\Omega$ (AEP, UK, E, SCN model)

## MODEL IDENTIFICATION

### — Specification Label —



US, Canadian model: AC 120V

$\sim 50$ Hz 95W

AEP model: AC 220V

$\sim 50$ Hz 180W

UK model: AC 240V

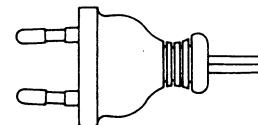
$\sim 50$ Hz 240W

E1, E2 model: AC 120, 220, 240V

$\sim 50/60$ Hz 180W

### — Power Cord —

E1 model: euro-plug 1-551-896-00

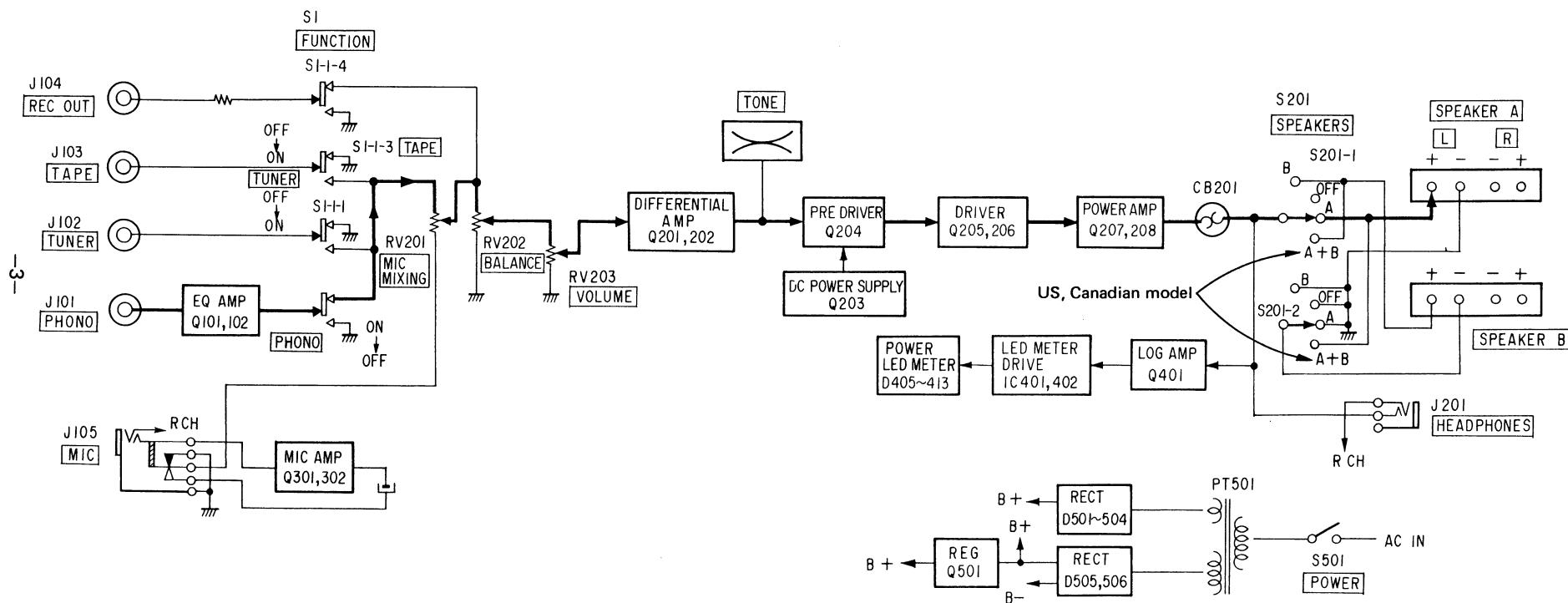


E2 model: parallel-blade plug 1-551-628-00



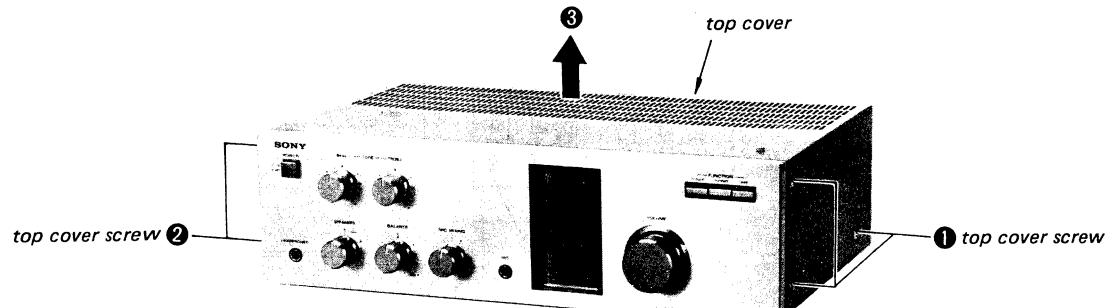
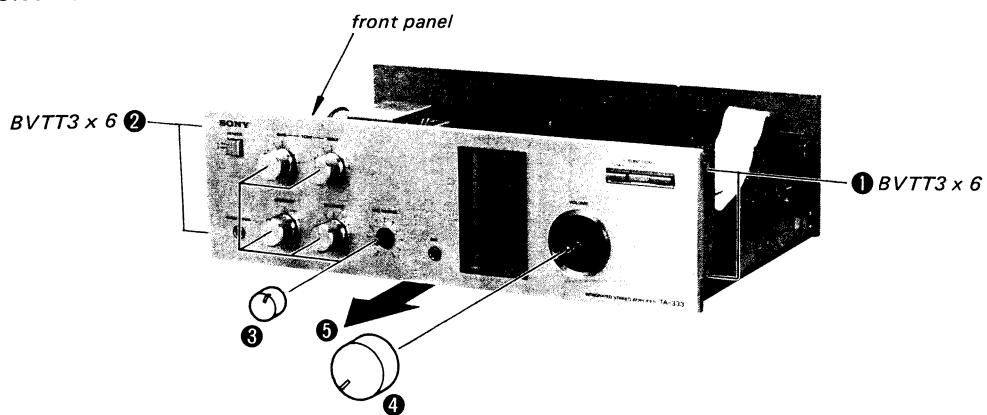
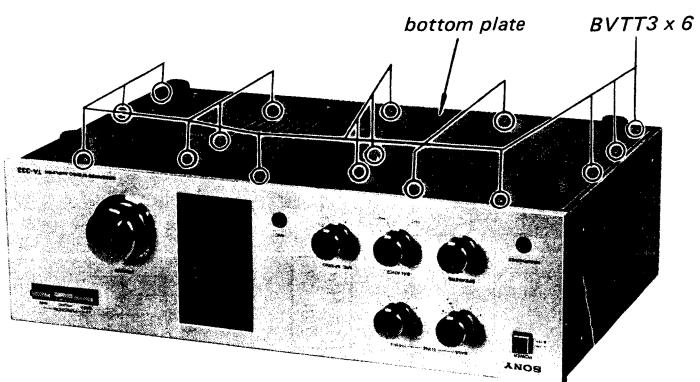
# SECTION 1 OUTLINE

## 1. BLOCK DIAGRAM



**SECTION 2**  
**DISASSEMBLY****Note:**

- Follow the disassembly procedure in the numerical order given.

**TOP COVER REMOVAL****FRONT PANEL REMOVAL****BOTTOM PLATE REMOVAL**

## SECTION 3

### ADJUSTMENTS

#### 3-1. IDLING CURRENT ADJUSTMENT

##### Setting:

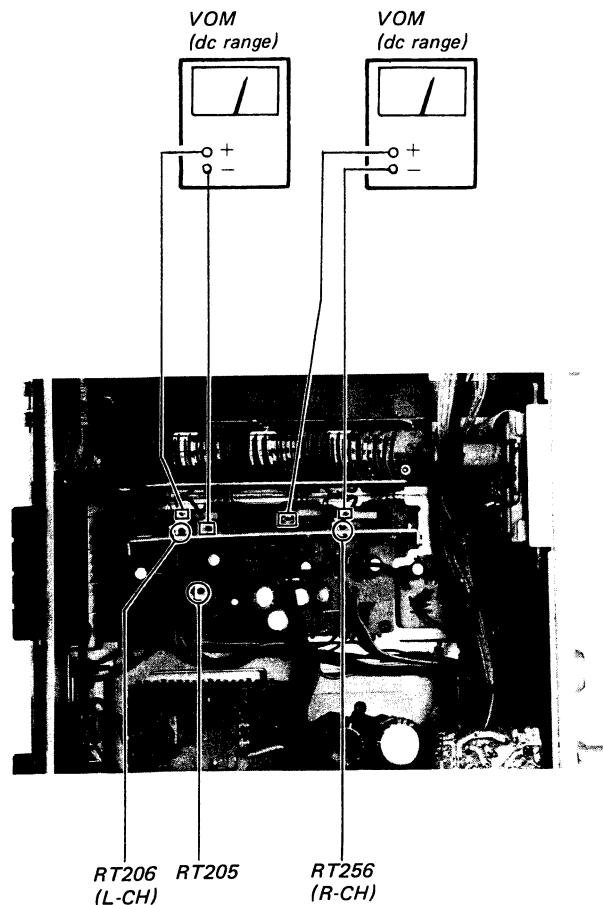
VOLUME control: minimum (fully counterclockwise)

##### Procedure:

Adjust RT206 (L-CH) and RT256 (R-CH) for 16mV dc reading on the VOM.

##### Adjustment Location:

— power amp board —

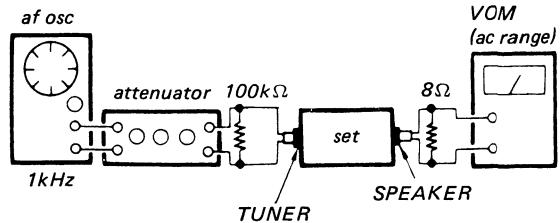


#### 3-2. POWER LEVEL METER ADJUSTMENT

##### Setting:

FUNCTION switch: TUNER

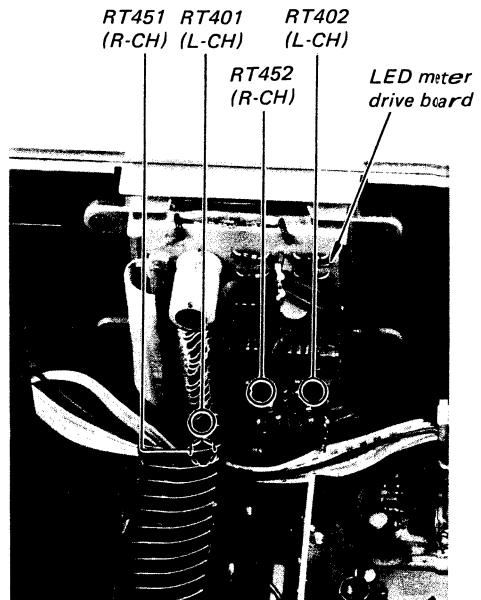
##### Procedure:



1. Turn the VOLUME control for a 2.83V (1W) reading on VOM.
2. Adjust RT402 (L-CH) and RT452 (R-CH) so that the power meter indicates 1W.
3. Adjust RT401 (L-CH) and RT451 (R-CH) so that the power meter indicates 25W.

##### Adjustment Location:

— power amp board —

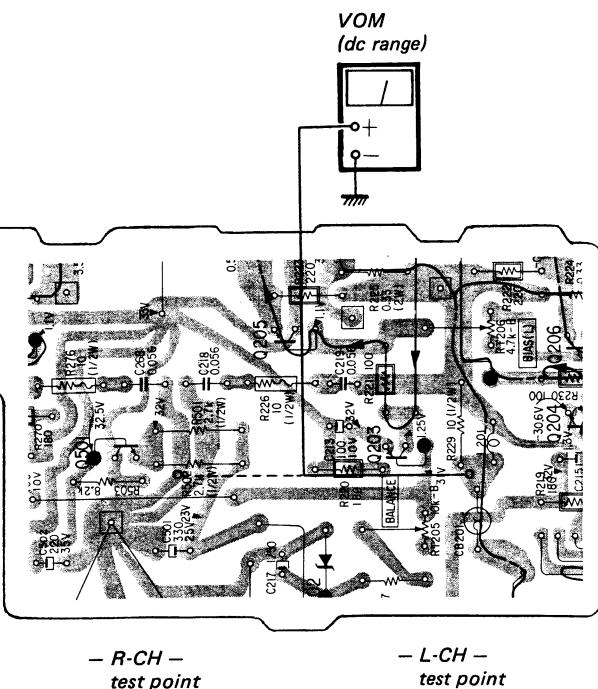


**3-3. DC BALANCE ADJUSTMENT****Procedure:**

Adjust RT205 for -70mV to +70mV reading on the VOM.

**Adjustment Location:**

— power amp board —



MEMO

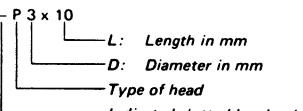
## 1/4 WATT CARBON RESISTORS

Note: Circled letter **A** is applicable to European models only.

Q	Part No.	Q	Part No.	Q	Part No.	Q	Part No.	Q	Part No.	Q	Part No.	Q	Part No.
1.0	1-246-401-00	10	1-246-425-00	100	1-246-449-00	1.0k	1-246-473-00	10k	1-246-497-00	100k	1-246-521-00	1.0M	1-246-545-00
1.1	1-246-402-00	11	1-246-426-00	110	1-246-450-00	1.1k	1-246-474-00	11k	1-246-498-00	110k	1-246-522-00	1.1M	1-210-814-00
1.2	1-246-403-00	12	1-246-427-00	120	1-246-451-00	1.2k	1-246-475-00	12k	1-246-499-00	120k	1-246-523-00	1.2M	1-210-815-00
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00	1.3k	1-246-576-00	13k	1-246-500-00	130k	1-246-524-00	1.3M	1-210-816-00
1.5	1-246-405-00	15	1-246-429-00	150	1-246-453-00	1.5k	1-246-577-00	15k	1-246-501-00	150k	1-246-525-00	1.5M	1-210-817-00
1.6	1-246-406-00	16	1-246-430-00	160	1-246-454-00	1.6k	1-246-578-00	16k	1-246-502-00	160k	1-246-526-00	1.6M	1-210-818-00
1.8	1-246-407-00	18	1-246-431-00	180	1-246-455-00	1.8k	1-246-579-00	18k	1-246-503-00	180k	1-246-527-00	1.8M	1-210-819-00
2.0	1-246-408-00	20	1-246-432-00	200	1-246-456-00	2.0k	1-246-580-00	20k	1-246-504-00	200k	1-246-528-00	2.0M	1-210-820-00
2.2	1-246-409-00	22	1-246-433-00	220	1-246-457-00	2.2k	1-246-581-00	22k	1-246-505-00	220k	1-246-529-00	2.2M	1-210-821-00
2.4	1-246-410-00	24	1-246-434-00	240	1-246-458-00	2.4k	1-246-582-00	24k	1-246-506-00	240k	1-246-530-00	2.4M	1-244-754-00
2.7	1-246-411-00	27	1-246-435-00	270	1-246-459-00	2.7k	1-246-583-00	27k	1-246-507-00	270k	1-246-531-00	2.7M	1-244-755-00
3.0	1-246-412-00	30	1-246-436-00	300	1-246-460-00	3.0k	1-246-584-00	30k	1-246-508-00	300k	1-246-532-00	3.0M	1-244-756-00
3.3	1-246-413-00	33	1-246-437-00	330	1-246-461-00	3.3k	1-246-585-00	33k	1-246-509-00	330k	1-246-533-00	3.3M	1-244-757-00
3.6	1-246-414-00	36	1-246-438-00	360	1-246-462-00	3.6k	1-246-586-00	36k	1-246-510-00	360k	1-246-534-00	3.6M	1-244-758-00
3.9	1-246-415-00	39	1-246-439-00	390	1-246-463-00	3.9k	1-246-587-00	39k	1-246-511-00	390k	1-246-535-00	3.9M	1-244-759-00
4.3	1-246-416-00	43	1-246-440-00	430	1-246-464-00	4.3k	1-246-488-00	43k	1-246-512-00	430k	1-246-536-00	4.3M	1-244-760-00
4.7	1-246-417-00	47	1-246-441-00	470	1-246-465-00	4.7k	1-246-489-00	47k	1-246-513-00	470k	1-246-537-00	4.7M	1-244-761-00
5.1	1-246-418-00	51	1-246-442-00	510	1-246-466-00	5.1k	1-246-490-00	51k	1-246-514-00	510k	1-246-538-00	5.1M	1-244-762-00
5.6	1-246-419-00	56	1-246-443-00	560	1-246-467-00	5.6k	1-246-491-00	56k	1-246-515-00	560k	1-246-539-00		
6.2	1-246-420-00	62	1-246-444-00	620	1-246-468-00	6.2k	1-246-492-00	62k	1-246-516-00	620k	1-246-540-00		
6.8	1-246-421-00	68	1-246-445-00	680	1-246-469-00	6.8k	1-246-493-00	68k	1-246-517-00	680k	1-246-541-00		
7.5	1-246-422-00	75	1-246-446-00	750	1-246-470-00	7.5k	1-246-494-00	75k	1-246-518-00	750k	1-246-542-00		
8.2	1-246-423-00	82	1-246-447-00	820	1-246-471-00	8.2k	1-246-495-00	82k	1-246-519-00	820k	1-246-543-00		
9.1	1-246-424-00	91	1-246-448-00	910	1-246-472-00	9.1k	1-246-496-00	91k	1-246-520-00	910k	1-246-544-00		

## HARDWARE NOMENCLATURE

Screw:



Indicated slotted-head only.

Unless otherwise indicated, it means cross-recessed head (Phillips type).

Nut, Washer, Retaining ring:



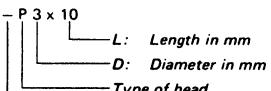
Reference Designation	Shape	Description	Remarks
SCREWS			
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW PSPW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		braizer-head screw	

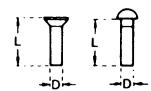
Reference Designation	Shape	Description	Remarks
SELF-TAPPING SCREWS			
TA		self-tapping screw	ex: TA, P 3 x 10
PTP		pan-head self-tapping screw	binding-head self-tapping (TA, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self-tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
SET SCREWS			
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
NUT			
N		nut	
WASHERS			
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
RETAINING RINGS			
E		retaining ring	
G		grip-type retaining ring	

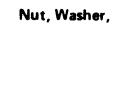
1/4 WATT CARBON RESISTORS <sup>Ⓐ</sup> Note: Circled letter <sup>Ⓐ</sup> is applicable to European models only.

$\Omega$	Part No.										
1.0	1-246-401-00	10	1-246-425-00	100	1-246-449-00	1.0k	1-246-473-00	10k	1-246-497-00	100k	1-246-521-00
1.1	1-246-402-00	11	1-246-426-00	110	1-246-450-00	1.1k	1-246-474-00	11k	1-246-498-00	110k	1-246-522-00
1.2	1-246-403-00	12	1-246-427-00	120	1-246-451-00	1.2k	1-246-475-00	12k	1-246-499-00	120k	1-246-523-00
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00	1.3k	1-246-476-00	13k	1-246-500-00	130k	1-246-524-00
1.5	1-246-405-00	15	1-246-429-00	150	1-246-453-00	1.5k	1-246-477-00	15k	1-246-501-00	150k	1-246-525-00
1.6	1-246-406-00	16	1-246-430-00	160	1-246-454-00	1.6k	1-246-478-00	16k	1-246-502-00	160k	1-246-526-00
1.8	1-246-407-00	18	1-246-431-00	180	1-246-455-00	1.8k	1-246-479-00	18k	1-246-503-00	180k	1-246-527-00
2.0	1-246-408-00	20	1-246-432-00	200	1-246-456-00	2.0k	1-246-480-00	20k	1-246-504-00	200k	1-246-528-00
2.2	1-246-409-00	22	1-246-433-00	220	1-246-457-00	2.2k	1-246-481-00	22k	1-246-505-00	220k	1-246-529-00
2.4	1-246-410-00	24	1-246-434-00	240	1-246-458-00	2.4k	1-246-482-00	24k	1-246-506-00	240k	1-246-530-00
2.7	1-246-411-00	27	1-246-435-00	270	1-246-459-00	2.7k	1-246-483-00	27k	1-246-507-00	270k	1-246-531-00
3.0	1-246-412-00	30	1-246-436-00	300	1-246-460-00	3.0k	1-246-484-00	30k	1-246-508-00	300k	1-246-532-00
3.3	1-246-413-00	33	1-246-437-00	330	1-246-461-00	3.3k	1-246-485-00	33k	1-246-499-00	330k	1-246-533-00
3.6	1-246-414-00	36	1-246-438-00	360	1-246-462-00	3.6k	1-246-486-00	36k	1-246-510-00	360k	1-246-534-00
3.9	1-246-415-00	39	1-246-439-00	390	1-246-463-00	3.9k	1-246-487-00	39k	1-246-511-00	390k	1-246-535-00
4.3	1-246-416-00	43	1-246-440-00	430	1-246-464-00	4.3k	1-246-488-00	43k	1-246-512-00	430k	1-246-536-00
4.7	1-246-417-00	47	1-246-441-00	470	1-246-465-00	4.7k	1-246-489-00	47k	1-246-513-00	470k	1-246-537-00
5.1	1-246-418-00	51	1-246-442-00	510	1-246-466-00	5.1k	1-246-490-00	51k	1-246-514-00	510k	1-246-538-00
5.6	1-246-419-00	56	1-246-443-00	560	1-246-467-00	5.6k	1-246-491-00	56k	1-246-515-00	560k	1-246-539-00
6.2	1-246-420-00	62	1-246-444-00	620	1-246-468-00	6.2k	1-246-492-00	62k	1-246-516-00	620k	1-246-540-00
6.8	1-246-421-00	68	1-246-445-00	680	1-246-469-00	6.8k	1-246-493-00	68k	1-246-517-00	680k	1-246-541-00
7.5	1-246-422-00	75	1-246-446-00	750	1-246-470-00	7.5k	1-246-494-00	75k	1-246-518-00	750k	1-246-542-00
8.2	1-246-423-00	82	1-246-447-00	820	1-246-471-00	8.2k	1-246-495-00	82k	1-246-519-00	820k	1-246-543-00
9.1	1-246-424-00	91	1-246-448-00	910	1-246-472-00	9.1k	1-246-496-00	91k	1-246-520-00	910k	1-246-544-00

## HARDWARE NOMENCLATURE

**Screw:**   
 L: Length in mm  
 D: Diameter in mm  
 Type of head  
 Indicated slotted-head only.  
 Unless otherwise indicated, it means cross-recessed head (Phillips type).



**Nut, Washer, Retaining ring:**  
  
 N 3  
 Diameter of usable screw or shaft  
 Reference designation

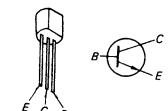
Reference Designation	Shape	Description	Remarks
<b>SCREWS</b>			
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW PSPW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		braizer-head screw	

Reference Designation	Shape	Description	Remarks
<b>SET SCREWS</b>			
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
<b>NUT</b>			
N		nut	
<b>WASHERS</b>			
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
<b>RETAINING RINGS</b>			
E		retaining ring	
G		grip-type retaining ring	

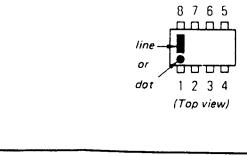
## Replacement Semiconductors

For replacement, use semiconductors except in ( ).

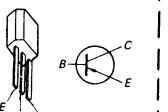
Q101, 102 }  
 Q151, 152 }  
 Q301, 302 } : 2SC1362 (2SC900F)



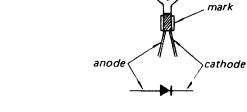
IC401, 402 }  
 IC451, 452 } : TL489CP



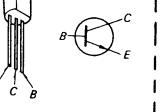
Q201, 202 }  
 Q251, 252 } : 2SA1027R (2SA733Q)  
 Q203, 253 } : 2SA1027R (2SA733P)



D201, 251: SV04S



Q204, 254 } : 2SC1364 (2SC945P)

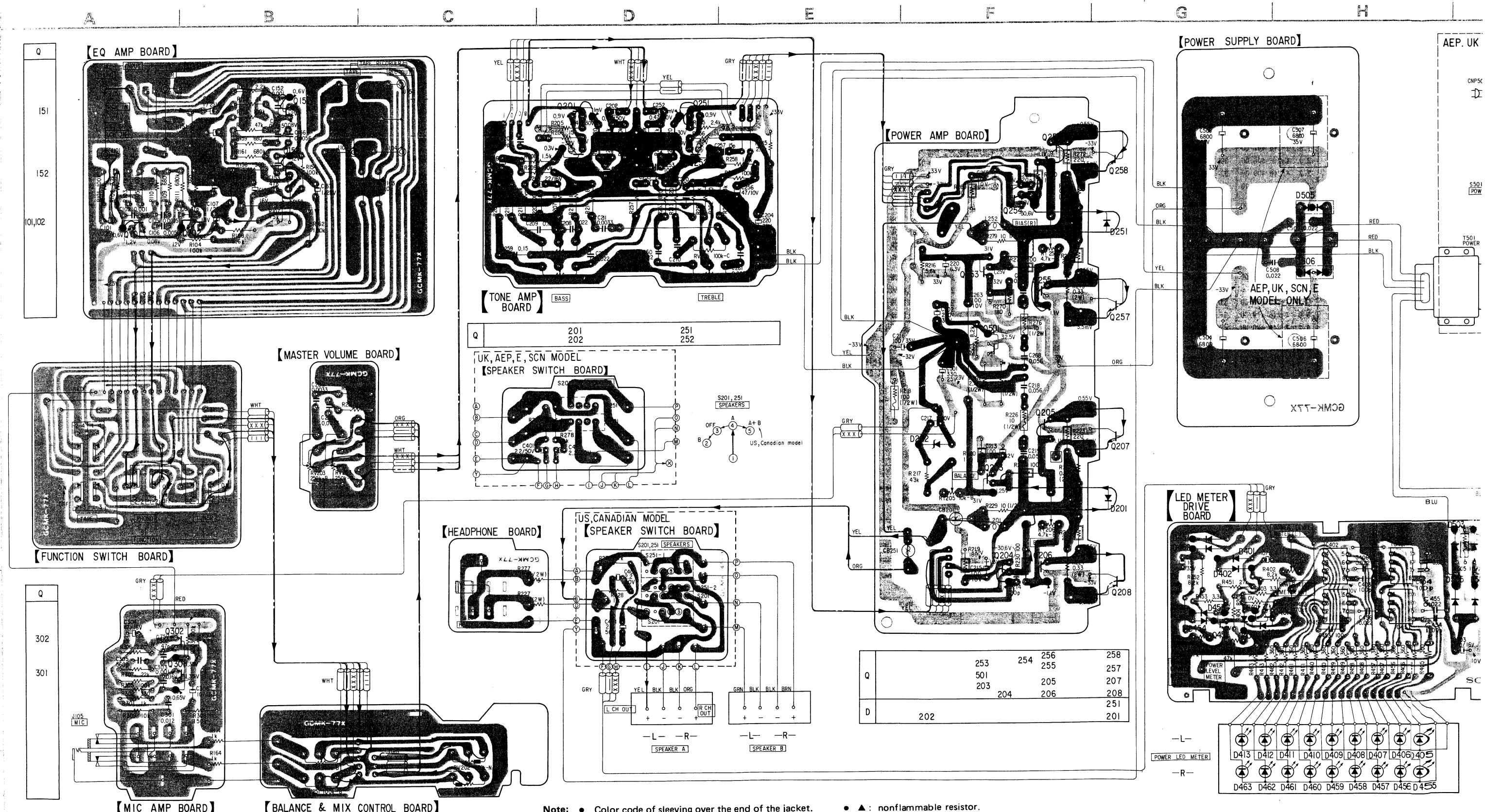


D202 : EQB01-16 (RD16EB)  
 D401, 402 } : 1T22AM (1S188AM)  
 D451, 452 } : 1S188AM  
 D403, 404 } : 1S953  
 D453, 454 } : 1S9

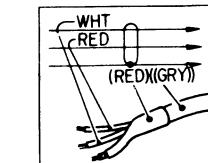
#### 4-1. MOUNTING DIAGRAM

**— Conductor Side —**

### Replacement Semiconductors: See page 9.



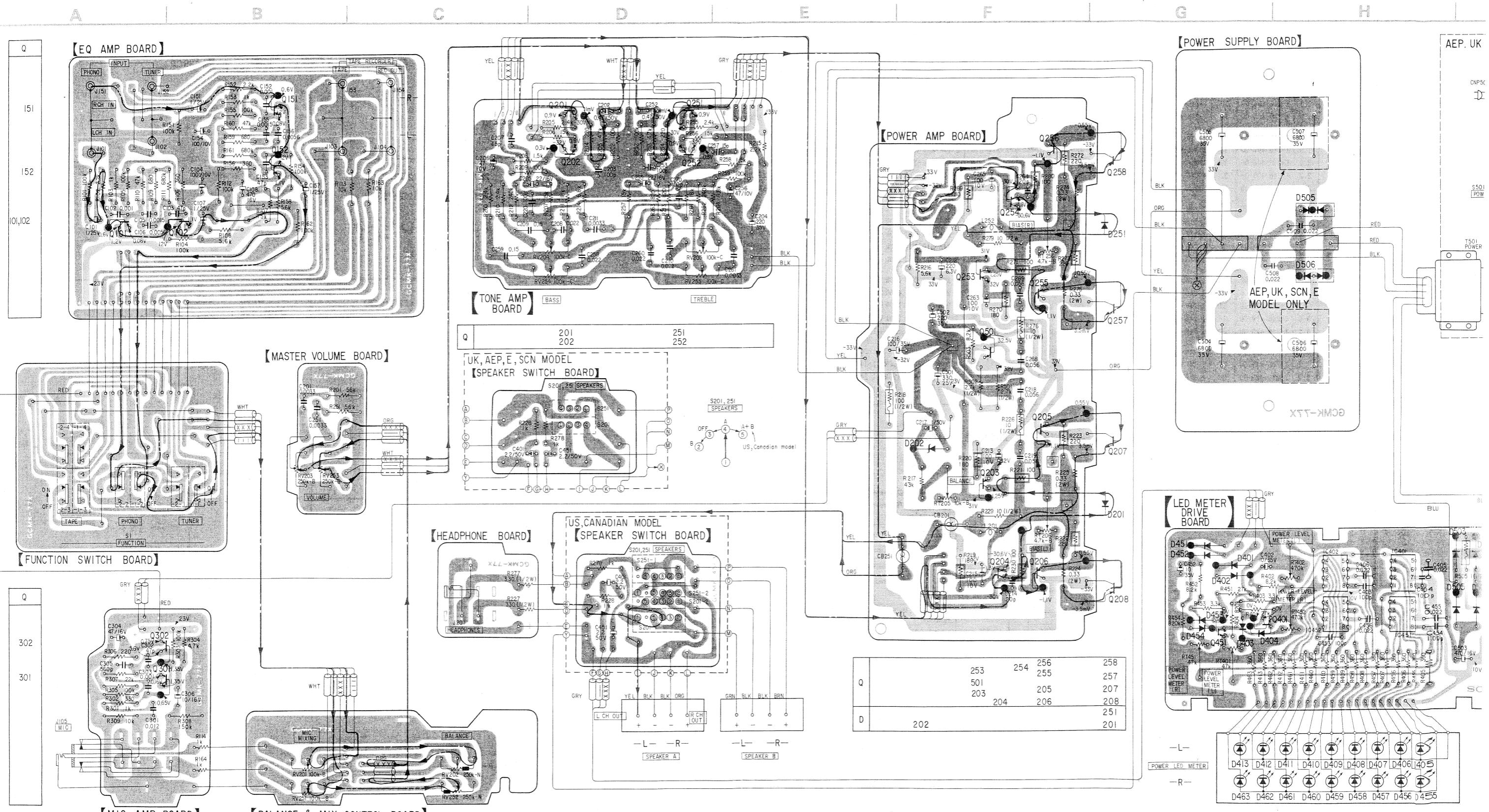
**Note:** • Color code of sleeving over the end of the jacket.

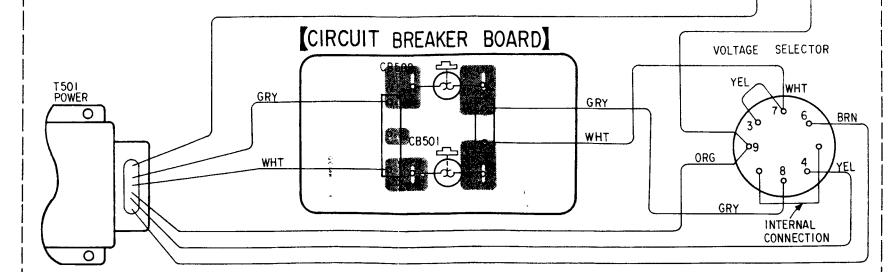
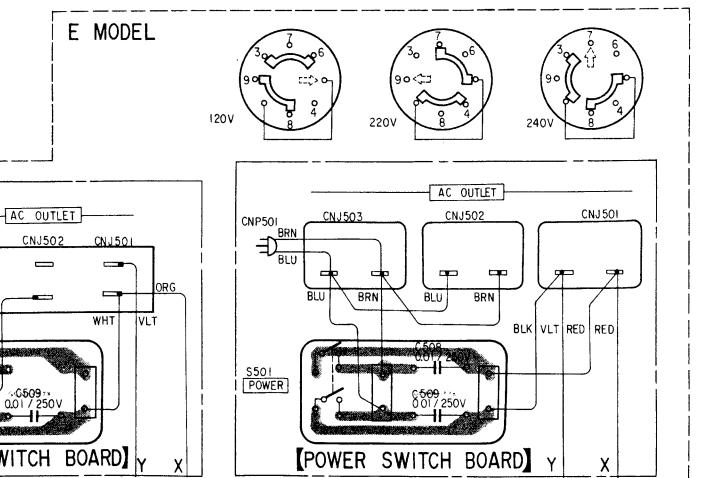
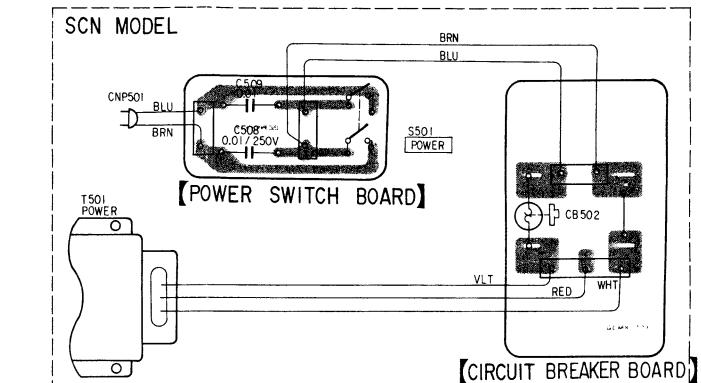
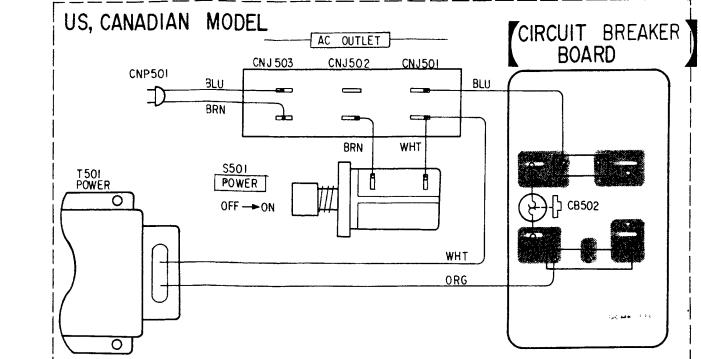
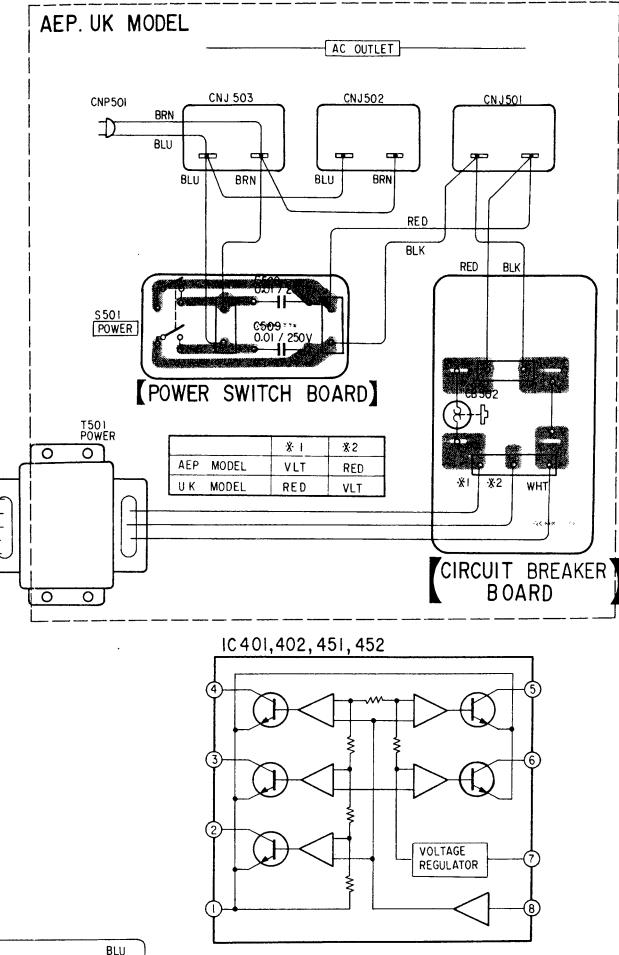
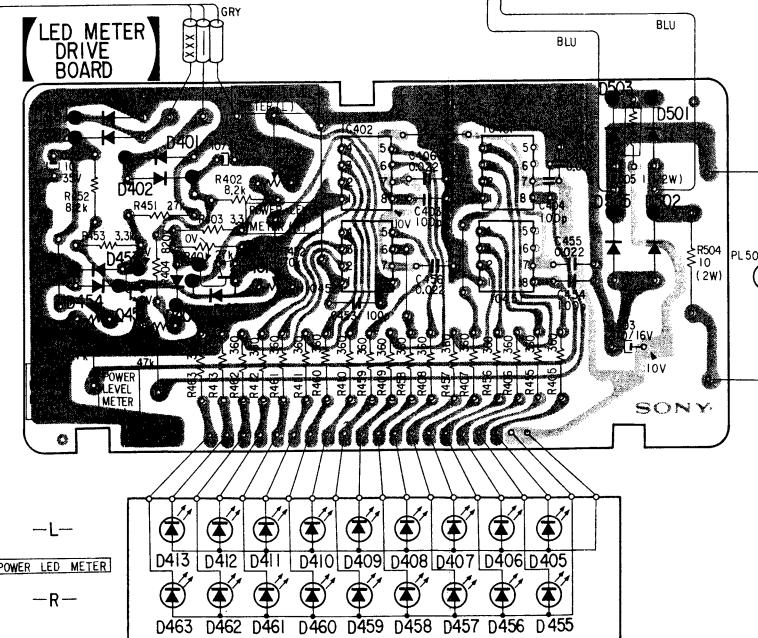
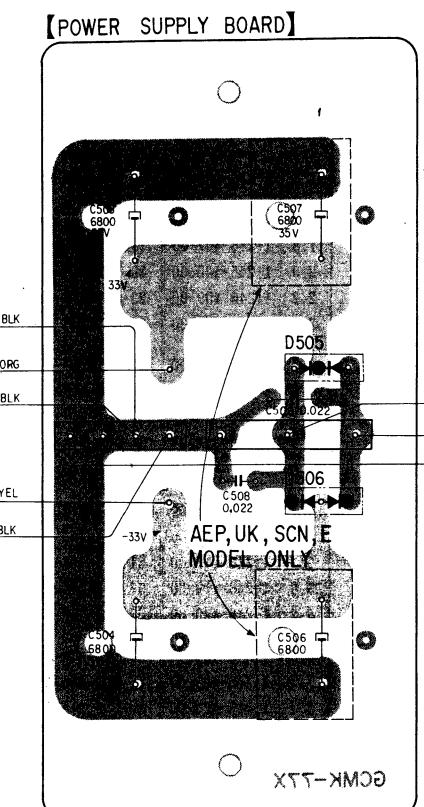
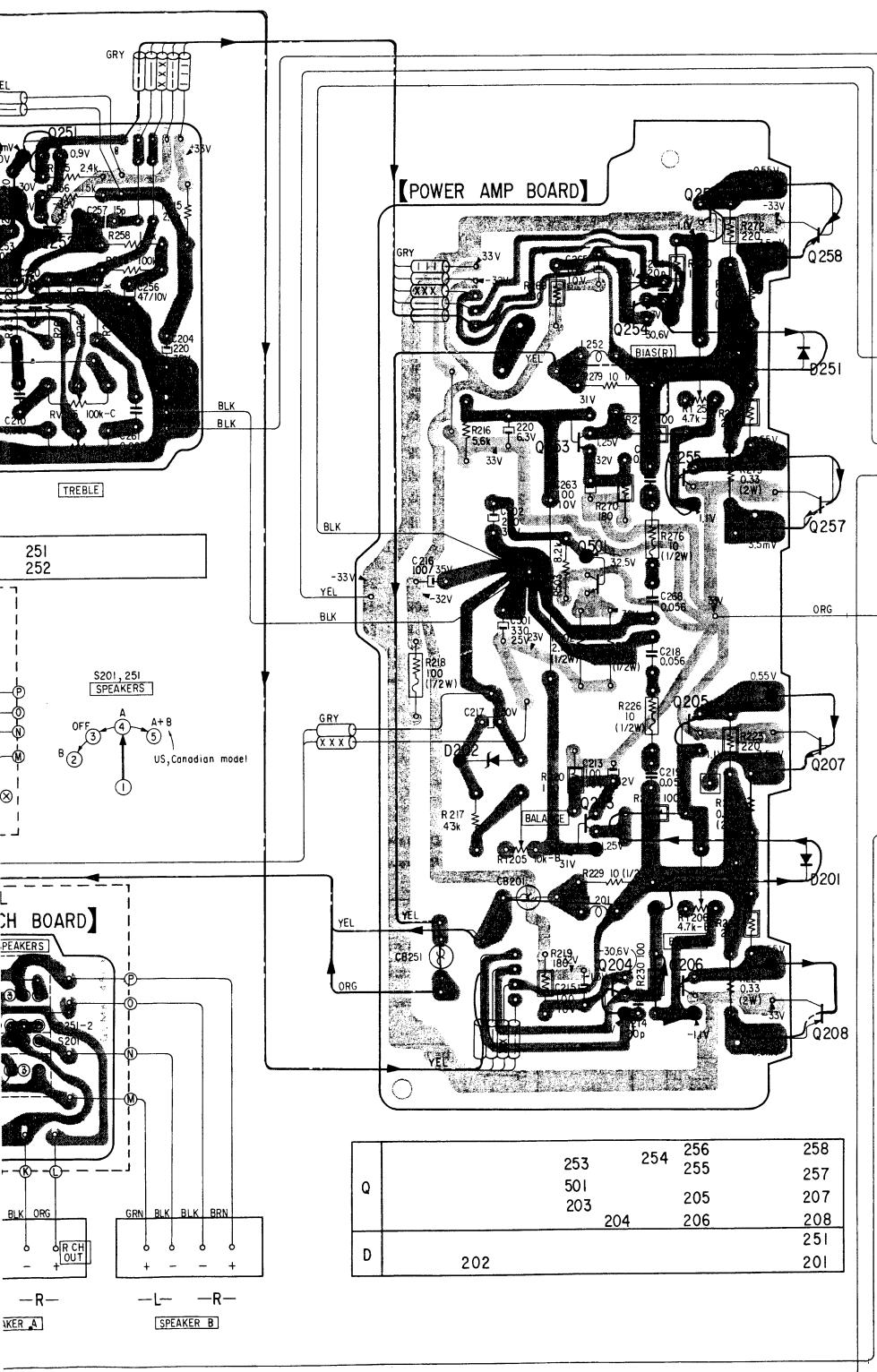


-  : nonflammable resistor.
-  : signal path
-  : L-CH signal path
-  : R-CH signal path
-  : B+ pattern
-  : B- pattern

4-1. MOUNTING DIAGRAM  
- Conductor Side -

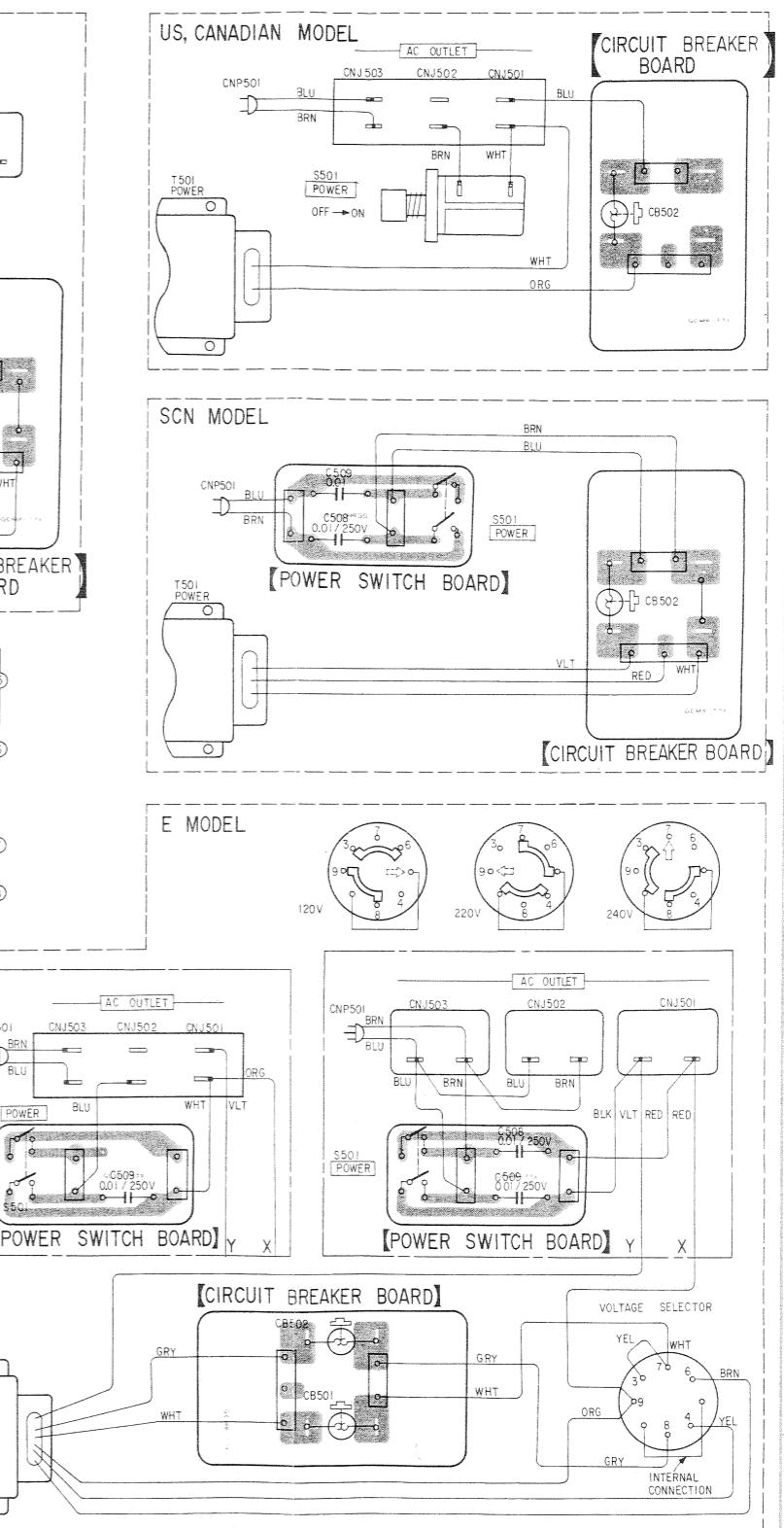
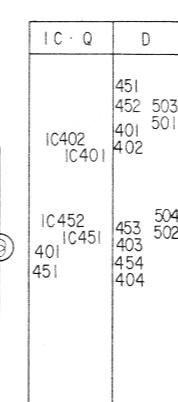
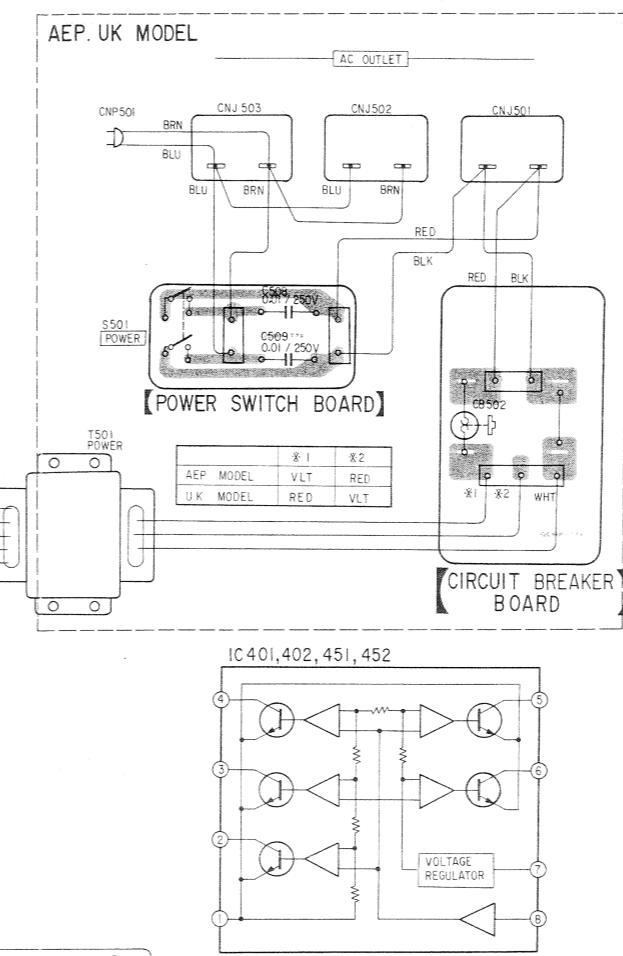
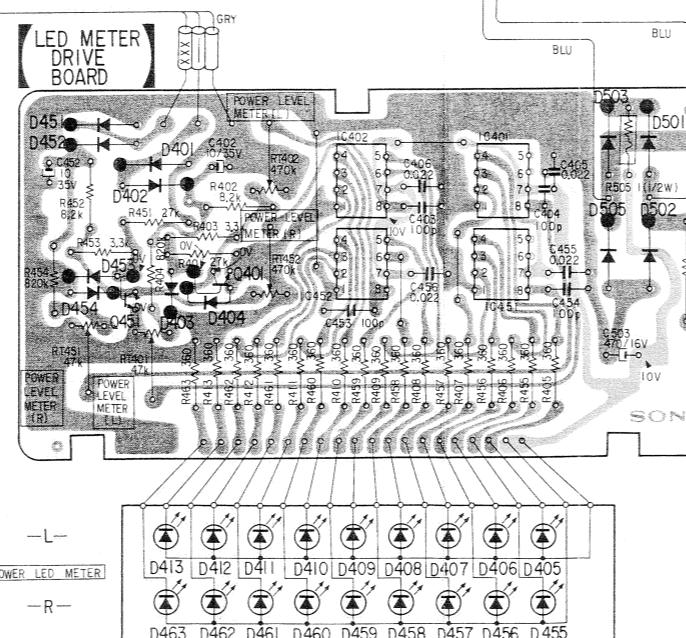
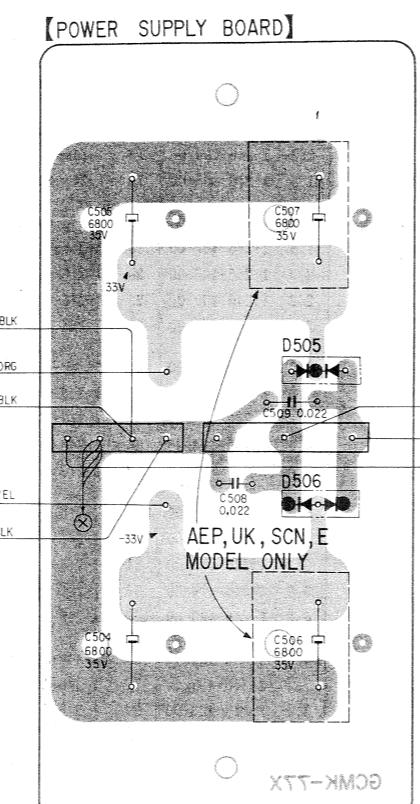
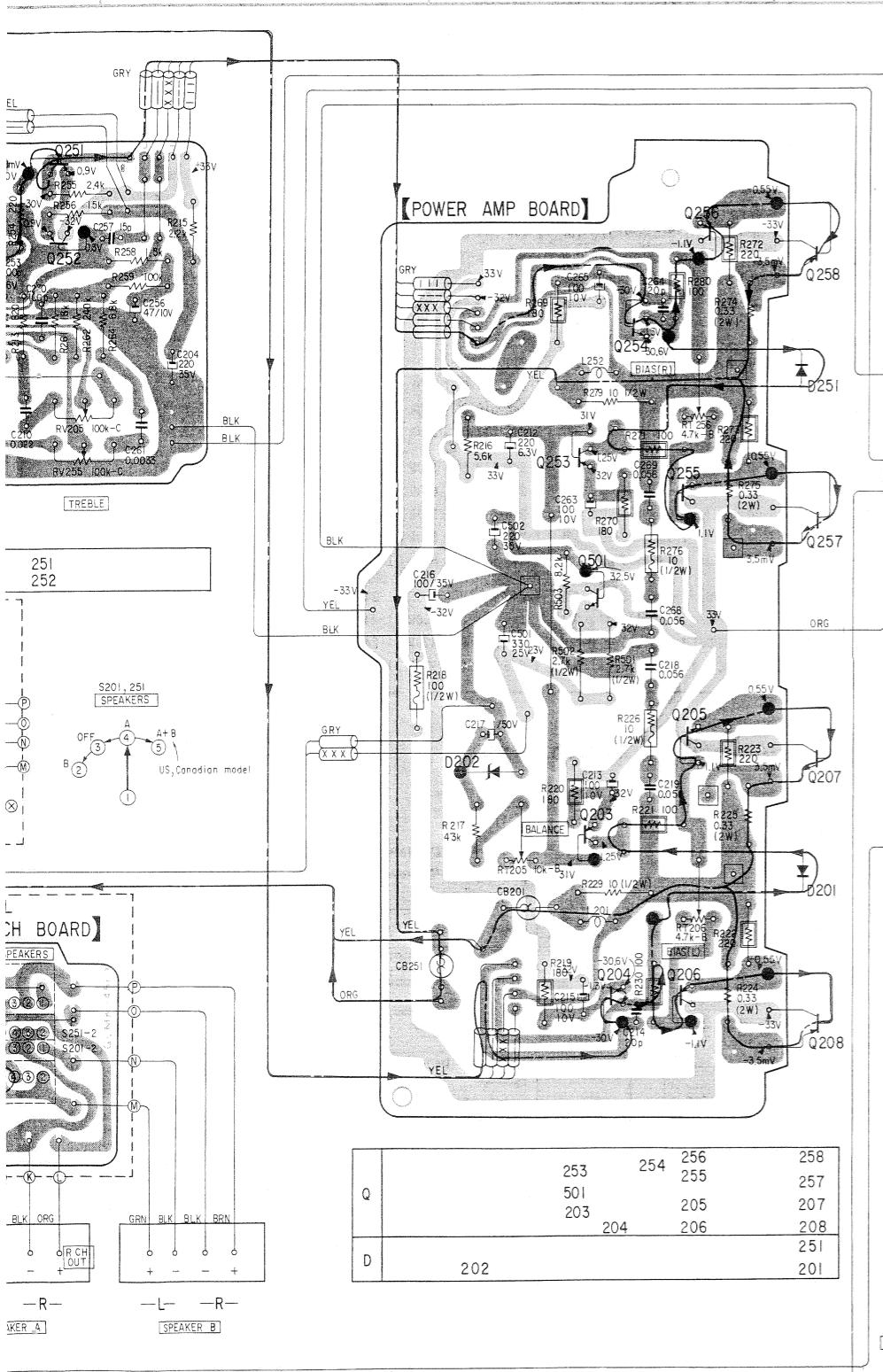
Replacement Semiconductors: See page 9.





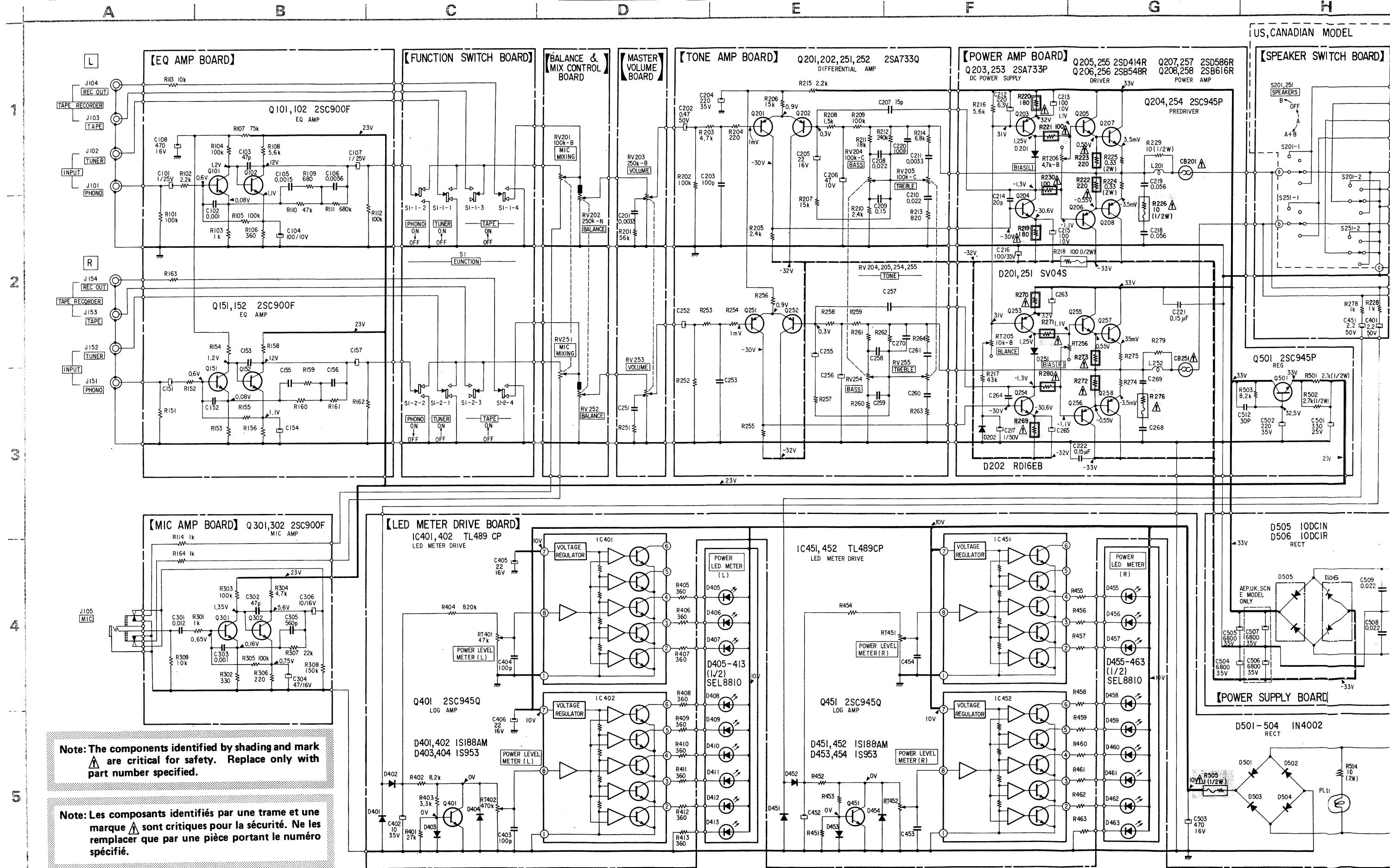
eeving over the end of the jacket.

- ▲ : nonflammable resistor.
- → : signal path
  - : L-CH signal path
  - : R-CH signal path
- ■■■■■ : B+ pattern
- ■■■■■ : B- pattern



eeving over the end of the jacket.

- ▲ : nonflammable resistor.
- → : signal path
- : L-CH signal path
- : R-CH signal path
- ◎ : B+ pattern
- ▨ : B- pattern



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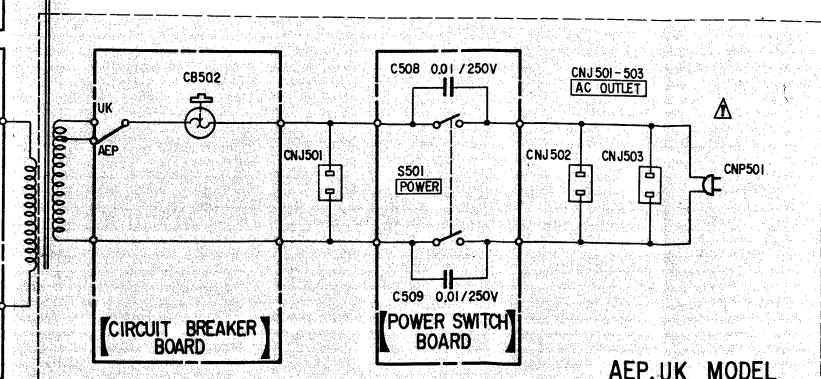
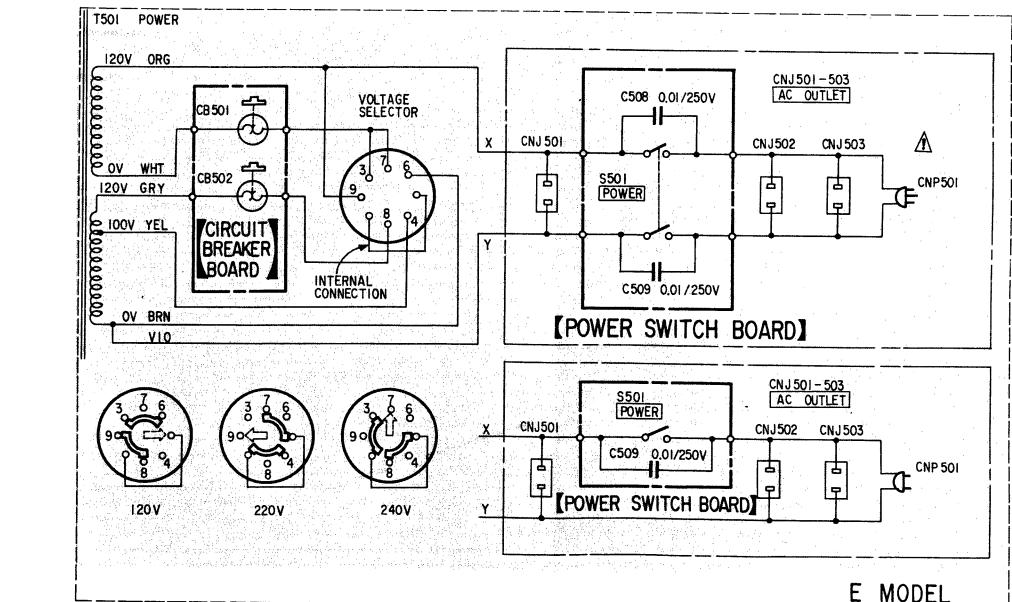
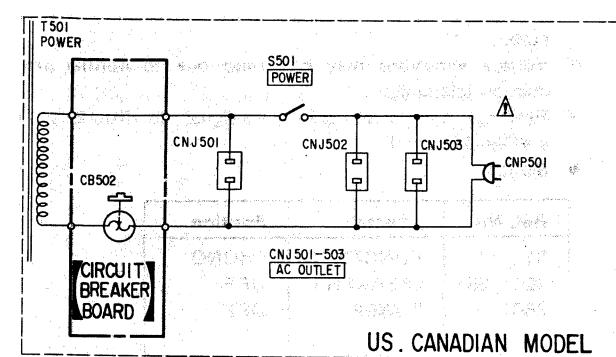
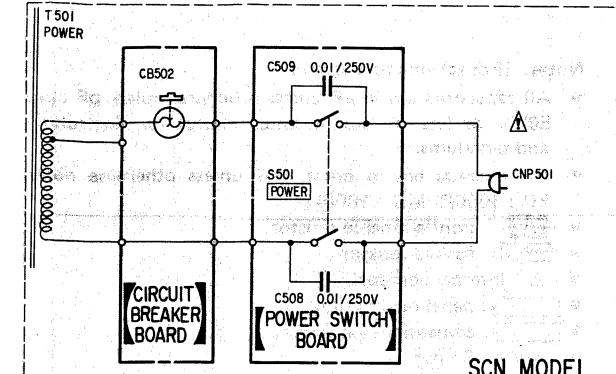
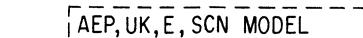
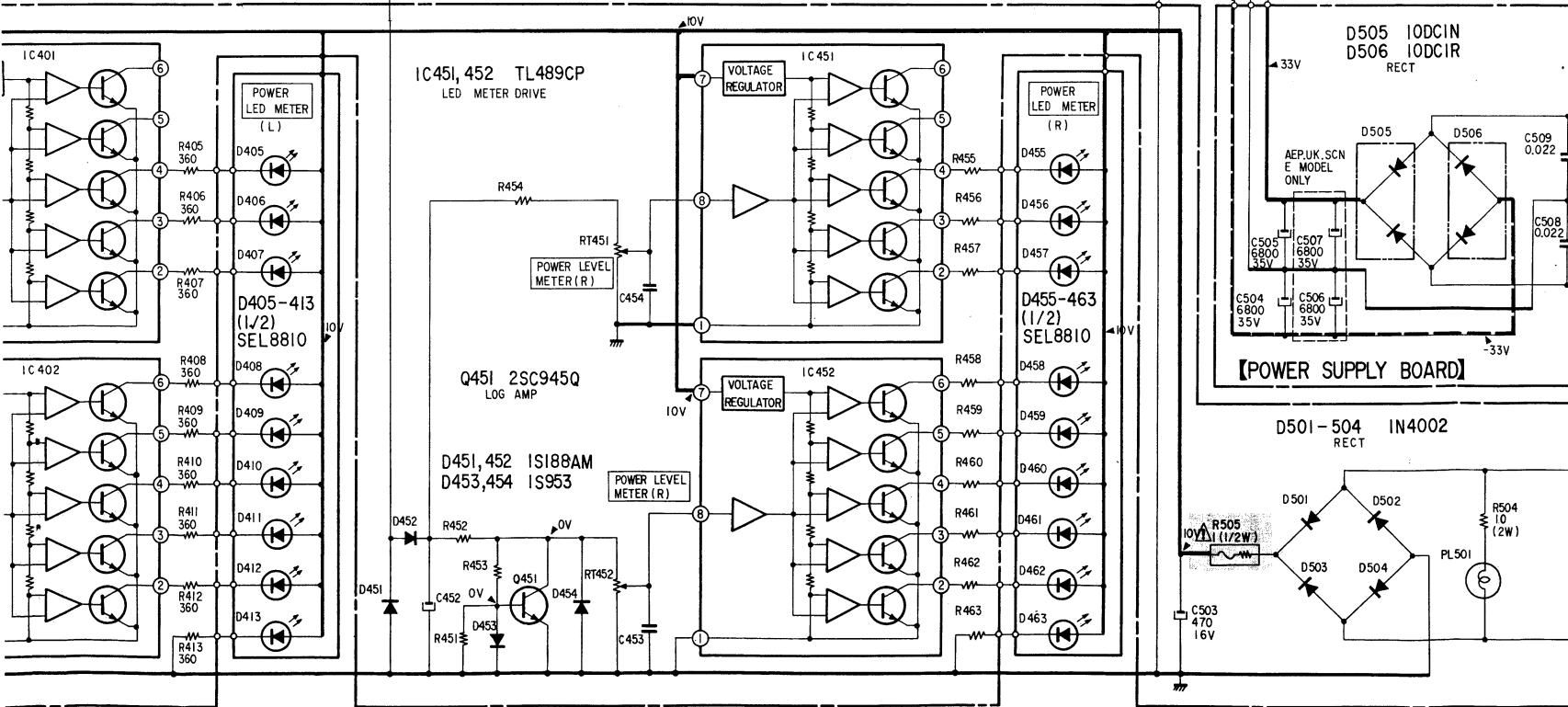
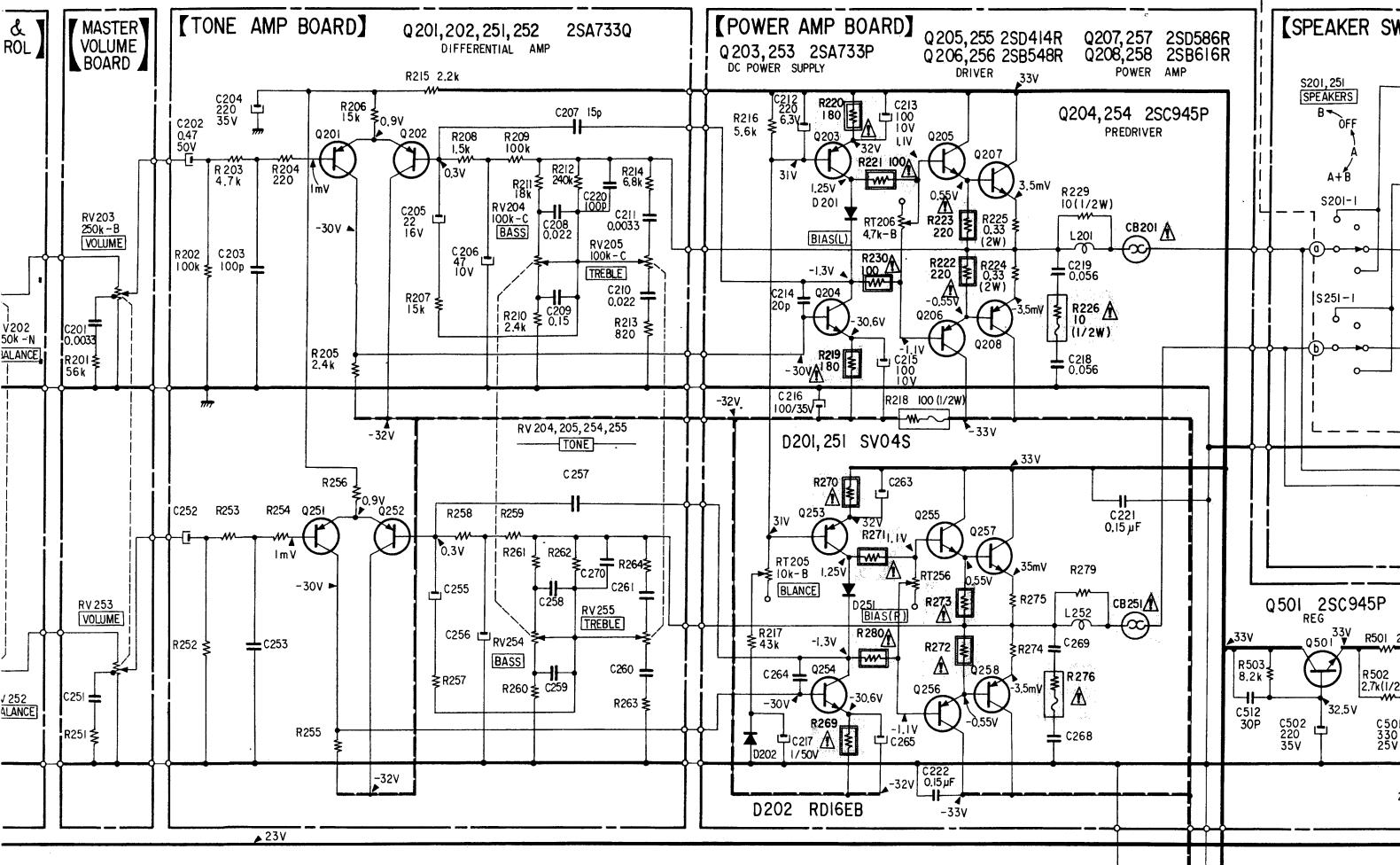
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ANSWER

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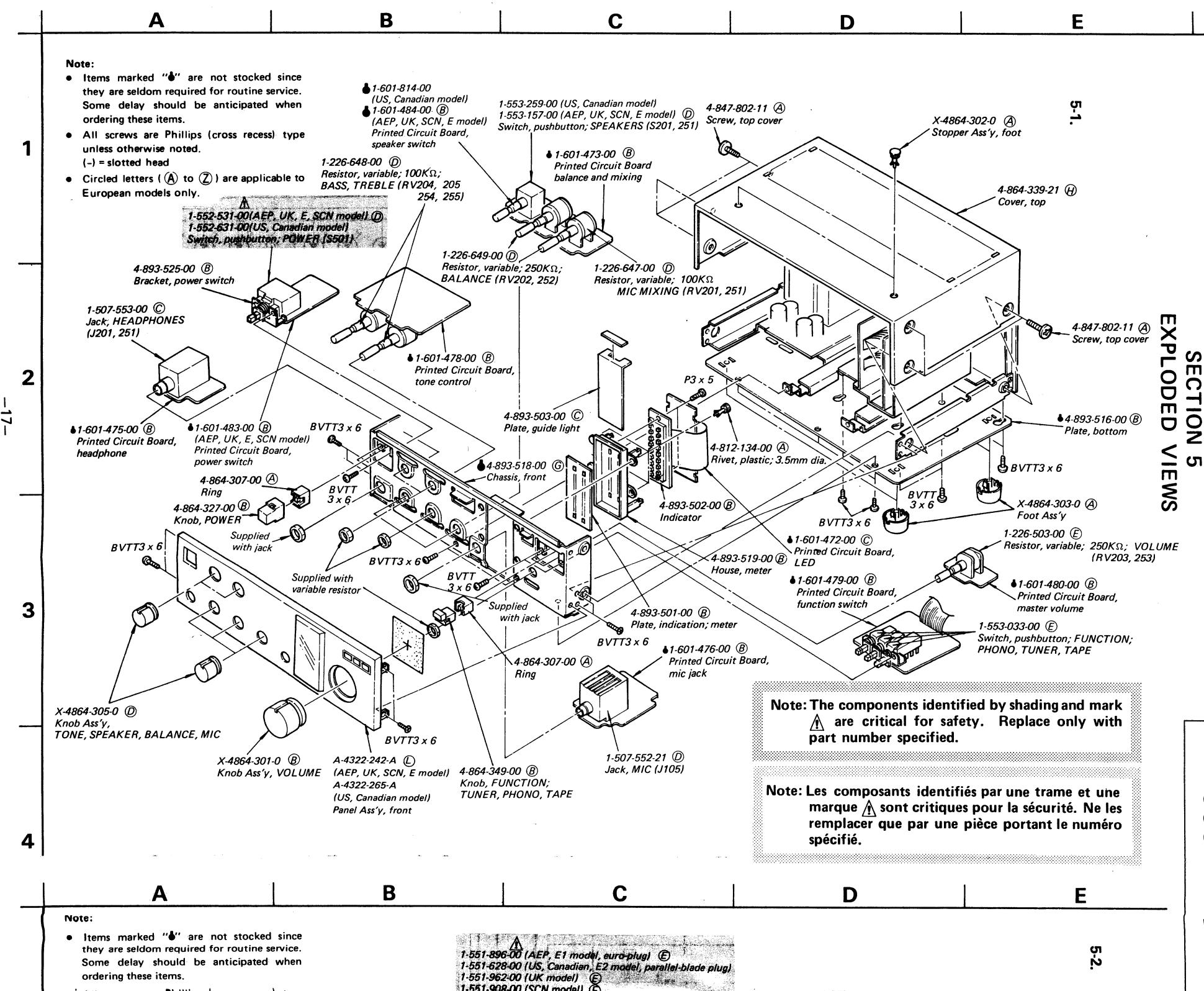
SECTION 5  
EXPLODED VIEWS

## Notes: (For schematic diagram)

- All capacitors are in  $\mu$ F unless otherwise noted.  $\mu$ F :  $\mu\mu$ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms,  $\frac{1}{2}$ W unless otherwise noted.
- $k\Omega$  : 1000 $\Omega$ , M $\Omega$  : 1000k $\Omega$
-  : nonflammable resistor.
-  : internal component.
-  : panel designation.
-  : adjustment for repair.
-  : B+ bus.
-  : B- bus.

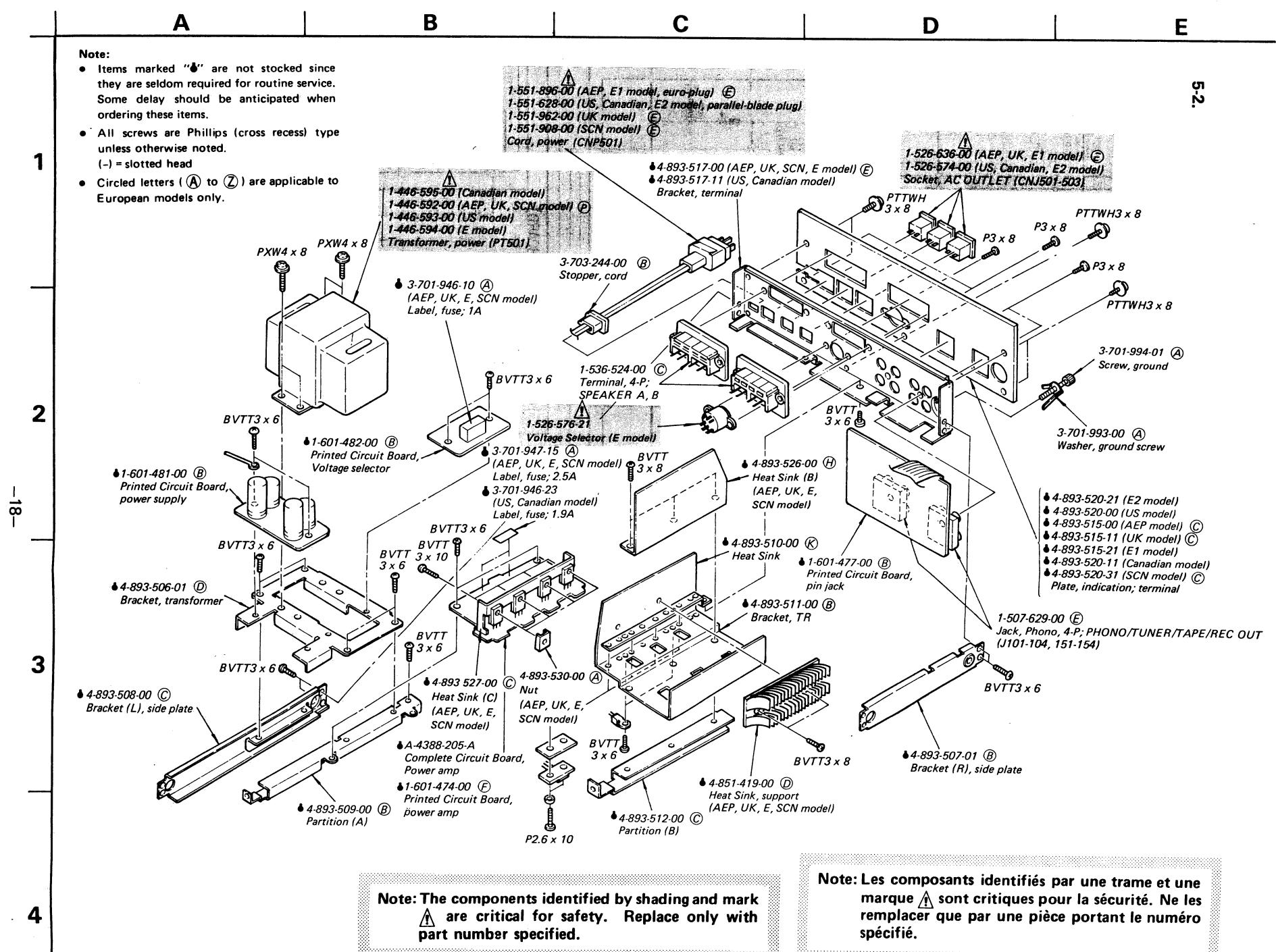
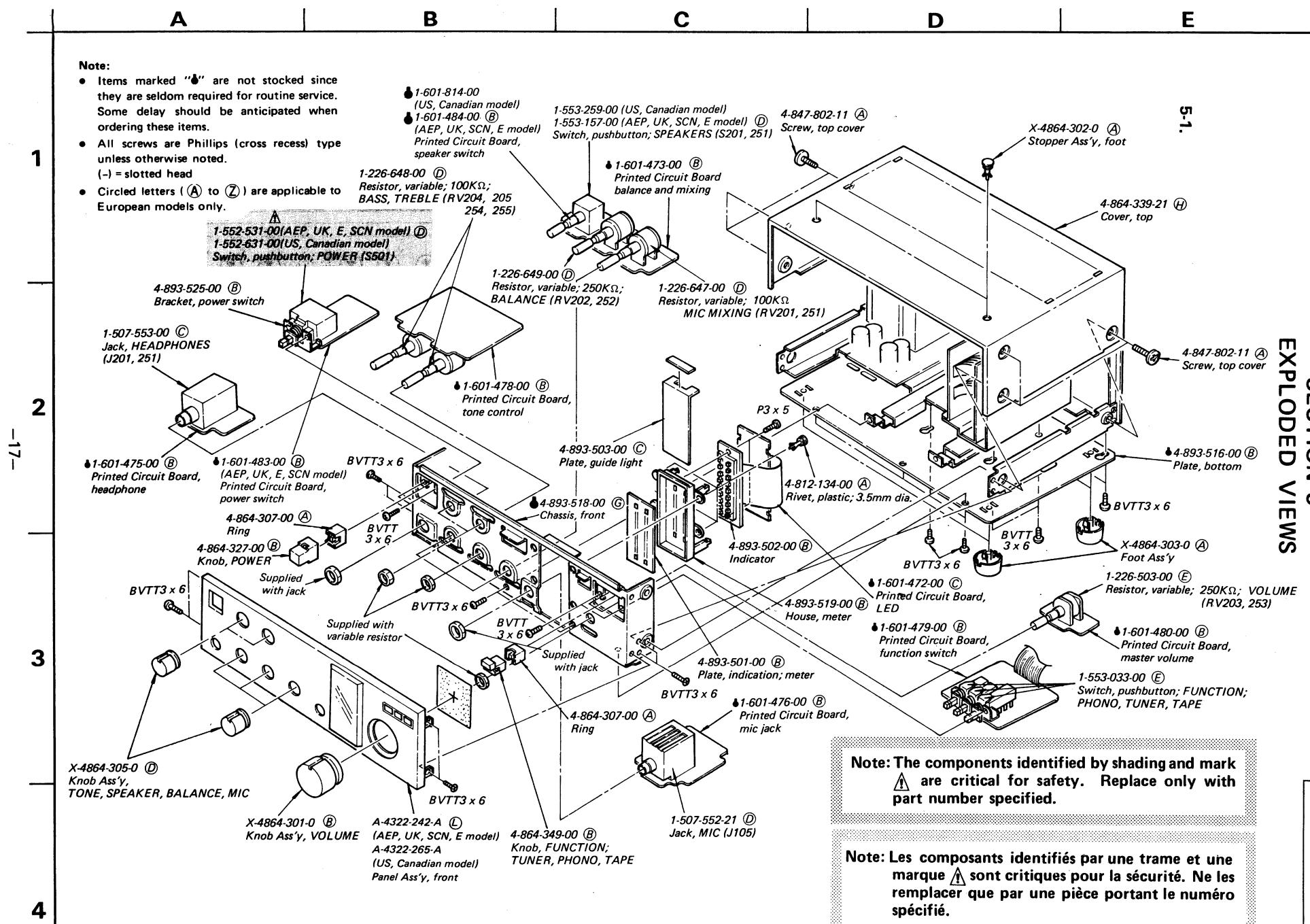
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- Readings are taken under no-signal conditions with a VOM (20k $\Omega$ /V).
- Switch

Ref. No.	Switch	Position
S1 S201, 251 S501	FUNCTION SPEAKERS POWER	PHONO OFF OFF



SECTION 5  
EXPLODED VIEWS

TA-333 TA-333



## SECTION 6

### ELECTRICAL PARTS LIST

Note: Circled letters (Ⓐ to Ⓛ) are applicable to European models only.

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>			<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>								
<b>SEMICONDUCTORS</b>															
<b>Transistors</b>															
⇒ Q101, 102 Q151, 152	8-729-665-47	(B) 2SC1362			C206, 256	1-121-352-00	(B) 47	10V	elect						
⇒ Q201, 202	8-729-612-77	(B) 2SA1027R			C207, 257	1-102-951-00	(A) 15p								
⇒ Q203, 253	8-729-612-77	(B) 2SA1027R			C208, 258	1-108-587-00	(B) 0.022		mylar						
⇒ Q204, 254	8-729-663-47	(B) 2SC1364			C209, 259	1-108-607-00	(B) 0.15		mylar						
⇒ Q205, 255	8-729-141-43	(B) 2SD414			C210, 260	1-108-587-00	(B) 0.022		mylar						
⇒ Q206, 256	8-729-154-83	(C) 2SB548			C211, 261	1-108-567-00	(B) 0.0033		mylar						
Q207, 257	1-800-911-11	(D) 2SD586R			C212	1-121-419-00	(B) 220	6.3V	elect						
Q208, 258	1-800-907-11	(D) 2SB616R			C213, 263	1-123-196-11	(B) 100	10V	elect						
⇒ Q251, 252	8-729-612-77	(B) 2SA1027R			C214, 264	1-102-958-00	(A) 20p								
⇒ Q301, 302	8-729-665-47	(B) 2SC1362			C215, 265	1-123-196-11	(B) 100	10V	elect						
⇒ Q401, 451	8-719-422-21	(B) 2SC1364			C216	1-121-357-00	(B) 100	35V	elect						
Q501	8-729-663-47	(B) 2SC1364			C217	1-121-391-00	(B) 1	50V	elect						
<b>ICs</b>															
IC401, 402	8-759-904-89	(D) TL489CP			C218, 268	1-108-242-00	(A) 0.022		mylar						
IC451, 452	8-759-904-89	(D) TL489CP			C301	1-108-357-00	(A) 0.012		mylar						
<b>Diodes</b>															
D201, 251	8-719-300-11	(C) SV04S			C302	1-101-880-00	(A) 47p								
⇒ D202	8-719-931-16	(B) EQB01-16			C303	1-102-074-00	(A) 0.001								
⇒ D401, 402	8-719-422-21	(B) 1T22AM			C304	1-121-409-00	(B) 47	16V	elect						
D403, 404	8-719-815-55	(B) 1S953			C305	1-102-115-00	(A) 560p								
D405-413	1-800-998-11	SEL8810			C306	1-121-651-00	(B) 10	16V	elect						
⇒ D451, 452	8-719-422-21	(B) 1T22AM			C401, 451	1-121-450-00	(B) 2.2	50V	elect						
D453, 454	8-719-815-55	(B) 1S953			C402, 452	1-123-341-00	(B) 10	35V	elect						
D455-463	1-800-998-11	SEL8810			C403, 453	1-102-106-00	(A) 100p								
⇒ D501-504	8-719-200-02	(B) 10E2			C404, 454	1-101-005-00	(A) 22	16V	(nonpolarized)						
⇒ D505	8-719-500-34	(C) S3VC40			C405, 406	1-123-335-00	(B) 330	25V	elect						
⇒ D506	8-719-501-34	(C) S3VC40R			C501	1-121-261-00	(B) 220	35V	elect						
<b>CAPACITORS</b>															
All capacitors are in $\mu$ F and ceramic unless otherwise noted.															
50WV or less are not indicated except for electrolytics and tantalums. p : $\mu\mu$ F, elect : electrolytic															
C101, 151	1-131-236-00	(B) 1	25V		C502	1-123-323-00	(B) 470	16V	elect						
C102, 152	1-102-074-00	(A) 0.001			C503	1-125-155-00	(F) 6800	35V	elect						
C103, 153	1-101-880-00	(A) 47p			C504, 505	1-125-155-00	(F) 6800	35V	elect						
C104, 154	1-123-307-00	(B) 100	10V		C506, 507	1-125-155-00	(F) 6800	35V	elect						
C105, 155	1-108-559-00	(B) 0.0015			C508, 509	1-130-196-00	(D) 0.01		Polyethylene						
C106, 156	1-108-573-00	(B) 0.0056													
C107, 157	1-131-236-00	(B) 1	25V												
C108	1-123-323-00	(B) 470	16V												
C201, 251	1-108-575-00	(B) 0.0068													
C202, 252	1-121-726-00	(B) 0.47	50V												
C203, 253	1-102-106-00	(A) 100p													
C204	1-121-261-00	(B) 220	35V												
C205, 255	1-121-479-00	(B) 22	16V												
⇒: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.															
<b>RESISTORS</b>															
All resistors are in ohms. Common $\frac{1}{4}$ W carbon resistors are omitted. Check schematic diagram for their values.															
R218	△1-212-982-00	(B) 100	$\frac{1}{2}$ W		R219, 269	△1-247-113-00	(A) 180	$\frac{1}{4}$ W	carbon						
R220, 270	△1-247-113-00	(A) 180	$\frac{1}{4}$ W						(nonflammable)						
R221, 271	△1-247-107-00	(A) 100	$\frac{1}{4}$ W		R222, 272	△1-247-115-00	(A) 220	$\frac{1}{4}$ W	carbon						
					R223, 273	△1-247-115-00	(A) 220	$\frac{1}{4}$ W	(nonflammable)						
R224, 274	△1-217-152-11	(B) 0.33	2W		R225, 275	△1-217-152-11	(B) 0.33	2W	metal oxide						
R226, 276	△1-212-958-00	(B) 10	$\frac{1}{2}$ W						fusible						

Note: The components identified by shading and mark  $\triangle$  are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par une forme et une marque  $\triangle$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

**Note: The components identified by shading and mark  $\triangle$  are critical for safety. Replace only with part number specified.**

**Note: Les composants identifiés par une trame et une marque  $\triangle$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.**

Ref. No.	Part No.	Description			
R227, 277	1-244-861-00	(A) 330	1/2W	carbon	
R229, 279	1-244-825-00	(A) 10	1/2W	carbon	
R501, 502	1-244-883-00	(A) 2.7k	1/2W	carbon	
R504	1-206-463-11	(B) 10	2W	metal oxide (nonflammable)	
R505	$\triangle$ 1-212-934-51	(B) 1	1/2W	fusible	
R230, 280	$\triangle$ 1-247-107-00	(A) 100	1/4W	carbon (nonflammable)	
RV201, 251	1-226-647-00	(D) 100k, variable; MIC MIXING			
RV202, 252	1-226-649-00	(D) 250k, variable; BALANCE			
RV203, 253	1-226-503-00	(E) 250k, variable; VOLUME			
RV204, 254	1-226-648-00	(D) 100k, variable; BASS, TREBLE			
RV205, 255					
RT205	1-226-236-00	(B) 10k, adjustable; balance			
RT206, 256	1-226-235-00	(B) 5k, adjustable; bias			
RT401, 451	1-226-238-00	(B) 50k, adjustable; power level meter			
RT402, 452	1-226-241-00	(B) 500k, adjustable; power level meter			

#### SWITCHES

S1	1-553-033-00	(E) Function; PHONO, TUNER, TAPE
	1-553-157-00	(D) Pushbutton, SPEAKERS (AEP, UK, SCN, E model)
S201, 251	1-553-259-00	Pushbutton, SPEAKERS (US, Canadian model)
	$\triangle$ 1-552-531-00	(D) Pushbutton, POWER (AEP, UK, E, SCN model)
S501	$\triangle$ 1-552-631-00	Pushbutton, POWER (US, Canadian model)

#### JACKS

J101-104	1-507-629-00	(E) 4P; PHONO, TUNER, TAPE
J151-154		
J105	1-507-552-21	(D) MIC

J201, 251	1-507-553-00	(C) HEADPHONES
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#### MISCELLANEOUS

CB201, 251	$\triangle$ 1-532-566-00	Breaker, circuit (US, Canadian model)
	$\triangle$ 1-532-567-00	(C) Breaker, circuit (AEP, UK, E, SCN model)
CB502	$\triangle$ 1-532-486-00	Breaker, circuit (US, Canadian model)
	$\triangle$ 1-532-535-00	(C) Breaker, circuit (AEP, UK, E, SCN model)
CNJ501	$\triangle$ 1-526-574-00	AC OUTLET (US, Canadian, E2 model)
CNJ503	$\triangle$ 1-526-636-00	(E) AC OUTLET (AEP, UK, E1 model)
	$\triangle$ 1-551-628-00	Cord, power; parallel-blade plug (US, Canadian, E2 model)
CNP501	$\triangle$ 1-551-896-00	(E) Cord, power; euro-blade (AEP, E1 model)
	$\triangle$ 1-551-908-00	(E) Cord, power (SCN model)
	$\triangle$ 1-551-962-00	(E) Cord, power (UK model)

**Note:** Circled letters (A to Z) are applicable to European models only.

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9-958-712-01

-20-

Ref. No.	Part No.	Description
L201, 252	1-420-838-00	(B) Coil
PT501	$\triangle$ 1-446-592-00	(P) Cord, power (AEP, UK, SCN model)
	$\triangle$ 1-446-593-00	Cord, power (US model)
	$\triangle$ 1-446-594-00	Cord, power (E1, E2, model)
	$\triangle$ 1-446-595-00	Cord, power (Canadian model)
	●A-4388-205-A	Complete Circuit Board, power amp
	●A-526-576-21	(D) Selector, voltage (E model)
	●1-535-114-00	(A) Terminal, 1P
	1-535-116-00	(A) Terminal, 3P
	●1-535-117-00	(A) Terminal, 4P
	●1-535-139-00	(A) Base Post 19mm (10mm pitch)
	1-535-140-00	(A) Base Post 19mm (10mm pitch)
	1-536-524-00	(C) Terminal Board, 4P; SPEAKER A, B
	●1-560-265-00	(A) Base Post (U-TYPE)
	●1-601-472-00	(C) Printed Circuit Board, LED
	●1-601-473-00	(B) Printed Circuit Board, balance and mixing
	●1-601-474-00	(F) Printed Circuit Board, power amp
	●1-601-475-00	(B) Printed Circuit Board, headphone
	●1-601-476-00	(B) Printed Circuit Board, mic jack
	●1-601-477-00	(B) Printed Circuit Board, pin jack
	●1-601-478-00	(B) Printed Circuit Board, tone control
	●1-601-479-00	(B) Printed Circuit Board, function switch
	●1-601-480-00	(B) Printed Circuit Board, master volume
	●1-601-481-00	(B) Printed Circuit Board, power supply
	●1-601-482-00	(B) Printed Circuit Board, voltage selector
	●1-601-483-00	(B) Printed Circuit Board, power switch (AEP, UK, E, SCN model)
	●1-601-484-00	(B) Printed Circuit Board, speaker switch (AEP, UK, SCN, E model)
	1-601-814-00	(B) Printed Circuit Board, speaker switch (US, Canadian model)

#### ACCESSORIES AND PACKING MATERIALS

Part No.	Description
●A-1-551-966-00	(G) Adaptor, power cord (AEP, E1 model)
●A-1-551-967-00	(E) Adaptor, power cord (UK model)
3-701-630-00	(A) Bag, plastic
3-770-993-11	(C) Manual, instruction (AEP, UK, E, Canadian model)
3-770-993-21	Manual, instruction (US model)
3-770-993-21	Manual, instruction (Canadian model)
3-794-577-31	Manual, instruction (Canadian model)
4-864-354-00	(B) Sheet, plastic
4-893-521-00	Carton (Canadian model)
4-893-522-00	(E) Carton (US, AEP, UK, E, SCN model)
4-893-533-00	(B) Cushion

- Items marked “●” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

79 L04121-1

Printed in Japan